IAP 2013

Cold Fusion 101: Introduction to Excess Power in Fleischmann-Pons Experiments

Peter Hagelstein, Mitchell Swartz

Jan/22 Tue 11:00AM-01:00PM 4-153
Jan/23 Wed 11:00AM-01:00PM 4-153
Jan/24 Thu 11:00AM-01:00PM 4-153
Jan/25 Fri 11:00AM-01:00PM 4-153
Jan/28 Mon 11:00AM-01:00PM 4-153
Jan/29 Tue 11:00AM-01:00PM 4-153
Jan/30 Wed 11:00AM-01:00PM 66-144

Enrollment: Unlimited: No advance sign-up
Attendance: Repeating event, particpants welcome at any session

Excess power production in the Fleischmann-Pons experiment; lack of confirmation in early negative experiments; theoretical problems and Huizenga's three miracles; physical chemistry of PdD; electrochemistry of PdD; loading requirements on excess power production; the nuclear ash problem and He-4 observations; approaches to theory; screening in PdD; PdD as an energetic particle detector; constraints on the alpha energy from experiment; overview of theoretical approaches; coherent energy exchange between mismatched quantum systems; coherent x-rays in the Karabut experiment and interpretation; excess power in the NiH system; Piantelli experiment; prospects for a new

small scale clean nuclear energy technology.

Sponsor(s): Electrical Engineering and Computer Science
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Contact Information